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Indian Standard

SPECIFICATION FOR WARPER'S BEAMS

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SPECIFICATION FOR WARPER'S BEAMS

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Indian Standard

SPECIFICATION FOR WARPER'S BEAMS

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 15 November 1979, after the draft finalized by the Cotton Weaving Machinery Components Sectional Committee had been approved by the Textile Division Council.

0.2 In formulating this standard assistance has been derived from the following publications:

BS 3225 : 1960 Beams for cotton, linen, silk and man-made fibres. British Standards Institution.

ISO 481-1977 Warper's beams — Terminology and main dimensions. International Organization for Standardization.

0.3 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard defines the basic terms and lays down the main dimensions and the variations of form and position for warper's beams.

1.2 This standard covers following types of warper's beams:

a) Warper's beam with shafts, and

b) Warper's beam without shafts and with axial drive.

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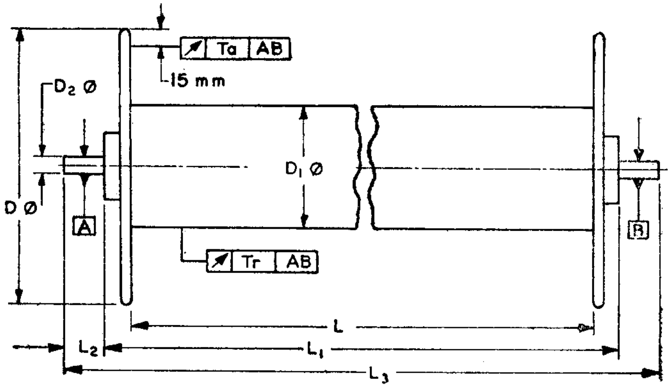
*Rules for rounding off numerical values (*revised*).

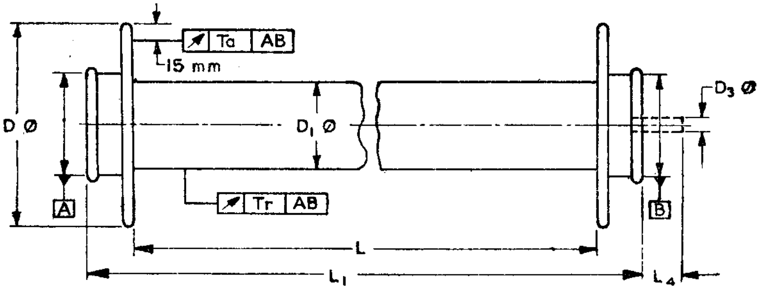
2. NOMENCLATURE

2.1 For the purpose of this standard the nomenclature as shown in Fig. 1 and 2 shall apply.



D = Flange diameter
D_1 = Barrel diameter
D_2 = Shaft diameter
L = Width between flanges
L_1 = Overall length (without shafts)
L_2 = Length of the shaft
L_3 = Total length (with shafts)

FIG. 1 WARPER'S BEAMS WITH SHAFTS



D = Flange diameter
D_1 = Barrel diameter
D_3 = Diameter of bore for shaft
L = Width between flanges
L_1 = Overall length (without shafts)
L_4 = Extension of shaft

FIG. 2 WARPER'S BEAMS WITHOUT SHAFTS AND WITH AXIAL DRIVE

3. DIMENSIONS

3.1 The dimensions of warper's beams with shafts shall be as given in Table 1 read with Fig. 1.

TABLE 1 DIMENSIONS OF WARPER'S BEAMS WITH SHAFTS

All dimensions in millimetres.

D $\pm 1 \cdot 5$	D_1 *Min*	D_2 h11*	L $^{+1 \cdot 5}_{-0}$	L_1† $^{+0}_{-2}$	L_2	L_3 $^{+0}_{-3}$
600	260		1 372 1 524 1 600 1 800 2 000	$L + 150$		$L_1 + 2L_2$
800	300					
900		38			120	
1 000		50			150	
1 100	360			$L + 170$		
1 200	400					

NOTE — For warper's beams with shafts, driving holes shall be provided.

*See IS : 919-1963 Recommendations for limits and fits for engineering (*revised*).

†If widths between flanges of more than 2000 mm are necessary, intervals of 200 mm shall be selected.

3.2 The dimensions of warper's beams without shafts and with axial drive shall be as given in Table 2 read with Fig. 2.

4. AXIAL RUN-OUT OF FLANGES

4.1 The admissible axial run-out of flanges (T_a) when measured following the indications on Fig. 1 and 2 shall be as under:

Flange Diameter	T_a
Up to and including 915 mm	0·5 mm
Over 915 mm	0·75 mm

TABLE 2 DIMENSIONS OF BEAMS WITHOUT SHAFTS AND WITH AXIAL DRIVE

(*Clause* 3.2)

All dimensions in millimetres.

D $\pm 1{\cdot}5$	D_1 *Min*	D_3	L* $+1{\cdot}5$ -0	L_1 $+0$ -2	L_4
600	260		1 372 1 524 1 600 1 800 2 000	$L+270$	
800	300				
900		38			120
1 000		50			150
1 100	360				
1 200	400			$L+300$	

*If widths between flanges of more than 2 000 mm are necessary, intervals of 200 mm shall be selected.

5. BARREL RUN-OUT

5.1 The admissible barrel run-out (T_r) measured at any point of the barrel in millimetres shall not be more than the value obtained by the following formula:

$$T_r = \frac{0{\cdot}25 \times L}{1\ 000}$$

where L is the width between flanges.

6. RESIDUAL UNBALANCE

6.1 Depending on the circumstances if it is necessary to fix a limit for the residual unbalance, it shall not exceed 10 mm per kg mass of beam in each of the two correction planes. If special conditions call for another grade, this has to be specified by the buyer.

7. MARKING

7.1 Each beam shall be marked with the following:

a) Manufacturer's name, trade-mark or initials; and
b) Flange diameter × Barrel diameter × Width between flanges.

7.1.1 The beams may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

INDIAN STANDARDS
ON
COTTON WEAVING MACHINERY COMPONENTS

IS:	
835-1979	Bottom shaft for cotton looms (*first revision*)
2531-1979	Crank shaft for cotton looms (*first revision*)
2929-1964	Bushes for bottom shaft, rocking shaft and crank shaft used on plain calico looms
3165-1965	Weaver's beams for use in plain calico looms
3166-1965	Working widths and reed spaces of plain calico looms
3199-1965	Definition of side (left or right) of weaving preparatory machines and weaving looms
3627-1966	Cloth rollers for plain cotton looms
3683-1973	Drop wires for warp stop motions (*first revision*)
3789-1966	Bare cloth take-up rollers for plain cotton looms
4438-1967	Perforated strips for take-up rollers
6254-1971	Side weft forks and grates for non-automatic looms
7043-1973	Loom (fly) spindles
8137-1976	Springs for plain calico looms
8138-1976	Picking nose, boss and shell for looms
8139-1976	Picking cone and bolt for looms
8567-1977	Glossary of terms relating to cone and cheese winders
8568-1977	Glossary of terms relating to pirn winders
8875-1978	Shedding tappets for plain calico looms